

In the Claims:

Please cancel claims 1-13.

Please add new claims 14-31 and follows:

Claim 14. (New) A complex porous structure of reticulated material selected from the group consisting of foam, felt and fabric produced by a process comprising electroplating said material with metal substantially throughout its entire developed surface, subsequent to pre-metallization, said pre-metallization comprising depositing a conductive polymer, said depositing comprising:

- AA
Sub B11
- (1) oxidizing a base structure comprising pores,
 - (2) rinsing,
 - (3) depositing, in a wet phase, on surfaces of the base structure, a monomer which in a polymerized form is electrically conductive,
 - (4) polymerization of the monomer by oxidation-doping into an electrically conductive polymer, and
 - (5) rinsing, wherein said steps are carried out on the base structure, substantially throughout its entire thickness, without clogging the pores of the base structure.

Claim 15. (New) The structure according to claim 14, wherein the oxidizing comprises treating the base structure with a solution of potassium permanganate.

Claim 16. (New) The structure according to claim 15, wherein the oxidizing comprises immersing the base structure in a solution of potassium permanganate.

Claim 17. (New) The structure according to claim 14, wherein the monomer deposited is selected from the group consisting of pyrrole, furane, thiophene and derivatives thereof.

sub C1
Claim 18. ~~(New) The structure according to claim 14, wherein the monomer deposited is selected from the group consisting of pyrrole, and polypyrrole.~~

Claim 19. (New) The structure according to claim 17, wherein the pyrrole is dissolved in an alcohol.

sub A2
Claim 20. (New) The structure according to claim 18, wherein the wet phase comprises a pyrrole solution for deposition of the monomer onto the developed surface of said complex structure, said pyrrole solution comprising an aqueous solution comprising at least 50% by volume water, and isopropanol solvent for pyrrole.

sub A2
Claim 21. (New) The structure according claim 18, wherein said depositing comprises precipitation of the monomer by immersing the complex structure in an aqueous solution comprising at least 50% water by volume, and isopropanol as a solvent for pyrrole.

sub C5
Claim 22. ~~(New) A metallized structure produced by electroplating the complex porous structure produced by claim 14 wherein electroplating is carried out in an electrolysis bath comprising ions which stabilize or oxidize an anodic structure.~~

Claim 23. (New) The metallized structure according to claim 22, wherein the electroplating is carried out under pulsed current with current reversal, at least during an initial phase of electrolysis, until formation of a metallic deposit whose conductivity is at least equal to that of the electrically conductive polymer.

Claim 24. (New) The metallized structure according to claim 22, wherein the electroplating is carried out during an initial electrolysis phase, until constitution of a metallic deposit of conductivity at least equal to that of the electrically conductive polymer, at a low current density.

2606
Claim 25. (New) The metallized structure according to claim 22, wherein said metal used for electroplating is selected from the group consisting of copper, nickel, iron, chromium, zinc, aluminum, tin, lead, gold, platinum, an alloy mixture of at least two of said metals, and superposition of at least two of said metals.

sub
A2
Claim 26. (New) The complex porous structure of claim 14, further comprising draining and drying following the rinsing subsequent to the oxidizing.

Claim 27. (New) The complex porous structure of claim 26, comprising draining following the rinsing subsequent to the polymerization of oxidation-doping.

sub
A2
Claim 28. (New) The complex porous structure of claim 27, comprising drying following the draining following the rinsing subsequent to the polymerization of oxidation-doping.

sub
A2
Claim 29. (New) The complex porous structure of claim 28, comprising draining following the rinsing subsequent to the oxidizing pre-treatment.

sub
A2
Claim 30. (New) The complex porous structure of claim 29, comprising repeating said steps following the rinsing subsequent to the oxidizing pre-treatment a preselected number of times.

Claim 31. (New) The complex porous structure of claim 19, wherein said alcohol comprises isopropanol.